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 01/22/02

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850- 013001	Application No. 10051460
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Robert A. Sanderson	
		Filing Date 1/22/02	Group Art Unit 3746

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
(28)	AA	1,194,258	08/08/1916	Walker			
(38)	AB	2,104,391	01/1938	Redrup	74	50	
(38)	AC	2,302,995	11/24/1942	Holmes	74	60	
(38)	AD	2,539,880	06/1951	Wildhaber	74	60	6/26/46
(38)	AE	4,342,544	08/03/1982	Pere	47	269	
(38)	AF	4,513,630	04/1985	Pere et al.	74	60	
(38)	AG	RE 15,442	09/05/22	Almen			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
(38)	AH	2,271,459	11/1973	France				✓
(38)	AI	2,453,332	04/06/1979	France			X	
(38)	AJ	2,346,836	03/1975	Germany			X	
(38)	AK	220594	03/1924	UK				
(38)	AL	629318	09/1947	UK				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AM	
	AN	
	AO	
	AP	

Examiner Signature <i>[Signature]</i>	Date Considered 3/4/05
EXAMINER: Initials, citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR §1.98(b))

Attorney's Docket No.
09850- 0130012

Application No.

10251460

Applicant
Robert A. Sanderson

Filing Date 1/24/02

Group Art Unit
3746**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
(30)	AA	3,877,839	04/15/75	Ifield	417	217	
(30)	AB	4,966,042	10/30/90	Brown	24	44	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
(30)	AL	DE 2612270	09/22/77	Germany				
(30)	AM	GB 651893	04/11/51	Great Britain				
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
(30)	AQ	International Search Report dated September 10, 2000 (App. No. PCT US 00/21150).
(30)	AR	International Search Report dated September 10, 2000 (App No. PCT US 00/21245).
	AS	
	AT	

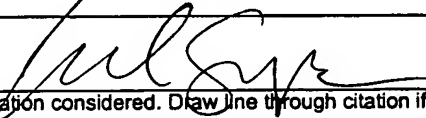
Examiner Signature

Date Considered

3/4/03

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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 09850- 013001		Application No. 10251460		
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))				Applicant Robert A. Sanderson				
				Filing Date 1/22/02		Group Art Unit 3746		
U.S. Patent Documents								
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate	
(38)	AA	1,894,033	01/10/33	Farwell				
(38)	AB	1,857,656	05/10/32	Oldfield			9/26/28	
(38)	AC	1,161,152	11/23/15	Nyborg			11/23/15	
	AD							
	AE							
	AF							
	AG							
	AH							
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
(38)	AI	815,794	04/1937	France			X	
(38)	AJ	282,125	12/1927	GB				
	AK							
	AL							
	AM							
	AN							
Other Documents (include Author, Title, Date, and Place of Publication)								
Examiner Initial	Desig. ID	Document						
(38)	AO	eCycle Inc. schematic						
	AP							
	AQ							
	AR							
	AS							
	AT							
	AU							
	AV							
	AW							

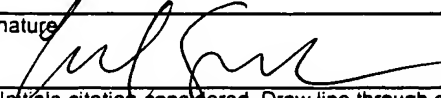
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850--013001	Application No. <u>10051460</u>
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Robert A. Sanderson	
		Filing Date <u>1/22/02</u>	Group Art Unit <u>3746</u>

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
<u>CS</u>	AA	6,053,091	04/25/2000	Tojo	<u>92</u>	<u>71</u>	<u> </u>
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

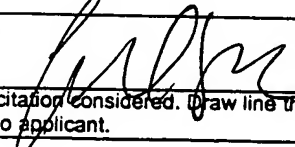
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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850- 013001	Application No. 10251466
	Applicant Robert A. Sanderson		
	Filing Date 1/22/02	Group Art Unit 3746	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
(37)	AA	5,542,382	08/06/96	Clarke	122	51	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
(37)	AL	DE 26 12 270	09/22/77	Germany			x	
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

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**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Attorney's Docket No.
09850-013001

Application No.

1,005,146.0Applicant
Robert A. SandersonFiling Date **1/22/02**

Group Art Unit

3746**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
CS	AA	5,782,219	07/21/98	Frey, et al.	123	36.3	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

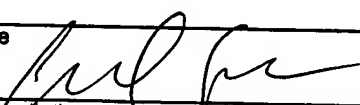
Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
CS	AL	JP 09151840	06/10/97	Japan			x	
	AM							
	AN							
	AO							
	AP							

Other Documents (Include Author, Title, Date, and Place of Publication)

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	AR	
	AS	
	AT	

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SUBSTITUTE FORM PTO-1449
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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

09850-013001

SERIAL NO.

10057460

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Robert A. Sanderson et al.

FILING DATE

1/22/02

GROUP

3746

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BS	AA	5 7 6 2 0 3 9	06/09/98	Gonzalez	123	197.3	
BS	AB	5 6 0 5 1 2 0	02/25/97	Hedelin	123	78	
BS	AC	5 5 7 2 9 0 4	11/12/96	Minculescu	74	45	
BS	AD	5 5 6 2 0 6 9	10/08/96	Gillbrand et al.	123	48	
BS	AE	5 5 3 5 7 0 9	07/16/96	Yashizawa	123	63	
BS	AF	5 3 2 9 8 9 3	07/19/94	Drangel et al.	123	78	
	AG	5 3 3 6 0 5 6	08/09/94	Kimura et al.	417	222	
	AH	5 2 8 0 7 4 5	01/25/94	Maruno	91	477	
	AI	5 2 6 1 3 5 8	11/16/93	Rorke	123	47R	
	AJ	5 1 3 6 9 8 7	08/11/92	Schechter et al.	123	48	
	AK	5 0 9 4 1 9 5	03/10/92	Gonzalez	123	58	
	AL	5 0 2 5 7 5 7	06/25/91	Larsen	123	48	
	AM	5 0 0 7 3 8 5	04/16/91	Kitaguchi	123	48	
	AN	4 9 2 0 8 5 9	05/01/90	Smart et al.	91	497	
	AO	4 8 6 9 2 1 2	09/26/89	Sverdlin	123	56	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
BS	AP	698,243	10/1940	Germany	123	56.1		✓
BS	AQ	WO 92/11449	07/1992	WIPO	123	56.1		✓
BS	AR	2 566 460	12/1985	France	123	56.1		✓
	AS							
	AT							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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	AV	

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APPLICANT

Robert A. Sanderson et al.

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3746

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
185	AA	5	6	3	4	8	5	2		6/3/97	Kanamaru	464	138	2/28/00
25	AB	5	5	5	3	5	8	2		9/10/96	Speas	423	56.4	
35	AC	5	1	2	9	7	9	7		7/14/92	Kanamuaru	417	500	8/21/91
35	AD	5	1	1	3	8	0	9		5/19/92	Ellenburg	123	58	
45	AE	5	0	2	7	7	5	6		7/2/91	Shaffer	123	58	
55	AF	4	8	5	2	4	1	8		8/1/89	Armstrong	74	60	
65	AG	4	7	0	8	0	9	9		11/24/87	Ekker	123	54A	
75	AH	4	4	3	3	5	9	6		2/28/84	Scalzo	74	839	
85	AI	4	2	3	5	1	1	6		11/25/80	Meijer et al.	74	60	
95	AJ	4	1	7	8	1	3	5		12/11/79	Roberts	417	222	
105	AK	4	1	7	4	6	8	4		11/20/79	Roseby et al.	123	48	
115	AL	4	1	6	8	6	3	2		9/25/79	Fokker	74	60	
125	AM	4	1	1	2	8	2	6		9/12/78	Cataldo	92	13.1	
135	AN	4	0	6	6	0	4	9		1/3/78	Teodorescu et al.	123	48	
145	AO	3	9	6	8	6	9	9		7/13/76	van Beukering	74	60	
155	AP	3	9	5	9	9	8	3		6/1/76	Roberts et al.	62	226	
165	AQ	3	8	4	7	1	2	4		11/12/74	Kramer	123	51	
175	AR	3	0	0	0	3	6	7		09/19/61	Eagleson	123	53	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
185	AS	WO 97/10415	3/20/97	PCT				
195	AT	DE 37 00 005 A1	7/14/88	German			✓	
205	AU	62-113938	4/25/87	Japan				
215	AV	61-212656	9/20/86	Japan				
225	AW	DE 29 31 377	2/26/81	German				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

EXAMINER	AX	DATE CONSIDERED	3/4/03
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SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

09850-013001

SERIAL NO.

10051460

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 CFR 1.98(b))

FILING DATE

1/22/02

GROUP

3/46

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CS	BA	4	7	8	0	0	6	0	10/25/88	Terauchi	417	222	
CS	BB	4	5	6	9	3	1	4	02/11/86	Milu	123	58	
CS	BC	4	4	8	9	6	8	2	12/25/84	Kenny	123	58	
CS	BD	4	2	9	4	1	3	9	10/13/81	Bex et al.	74	839	
CS	BE	4	2	8	5	3	0	3	08/25/81	Leach	123	51	
CS	BF	4	2	0	8	9	2	6	06/24/80	Hanson	74	191	
CS	BG	4	2	0	3	3	9	6	05/20/80	Berger	123	58	10/19/8
CS	BH	4	1	5	2	9	4	4	05/08/79	Kemper	74	191	
CS	BI	4	1	4	4	7	7	1	03/20/79	Kemper et al.	74	60	
CS	BJ	4	0	9	4	2	0	2	06/13/78	Kemper	74	60	
CS	BK	4	0	7	7	2	6	9	03/07/78	Hodgkinson	74	60	
CS	BL	4	0	1	1	8	4	2	03/97	Davies et al.	123	61R	
CS	BM	3	9	3	9	8	0	9	02/24/76	Rohs	123	58	
CS	BN	3	8	6	1	8	2	9	01/21/79	Roberts et al.	417	53	
CS	BO	3	6	5	4	9	0	6	04/11/72	Airas	123	43	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BP							
	BQ							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	BR		
	BS		

EXAMINER

Carl

DATE CONSIDERED

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SUBSTITUTE FORM PTO-1449
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10051460

INFORMATION DISCLOSURE
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APPLICANT
Robert A. Sanderson et al.

(37 CFR 1.98(b))

FILING DATE
1/12/02

GROUP
3746

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4 7 7 6 2 5 9	10/11/88	Takai	92	71	11/11
AS	AB	4 4 1 8 5 8 6	12/06/83	Maki et al.	74	831	11/11
AS	AC	4 2 9 7 0 8 5	10/27/81	Brucken	417	222	11/11
AS	AD	4 2 8 5 6 4 0	08/25/81	Mukai	417	269	11/11
AS	AE	4 2 7 0 4 9 5	06/02/81	Freudenstein et al.	123	54	11/11
AS	AF	4 1 7 8 1 3 6	12/11/79	Reid et al.	417	269	11/11
AS	AG	3 5 2 8 3 1 7	09/15/70	Cummins	74	598	11/11
AS	AH	3 3 8 6 4 2 5	06/68	Morsell	123	61R	11/11
AS	AI	3 1 9 8 0 2 2	08/03/65	Algor de Waern	74	60	11/11
AS	AJ	3 1 8 2 6 4 4	05/65	Drtna	123	56.1	11/11
AS	AK	3 0 7 7 1 1 8	02/12/63	Robbins	74	60	11/11
AS	AL	3 0 7 6 3 4 5	02/05/63	Leclercq	74	60	11/11
AS	AM	2 6 5 3 4 8 4	09/29/53	Zeher	74	40	11/11

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
							YES NO
AS	AN	DE 27 51 846	11/19/77	Germany			abstract
AS	AO	1 037 799	12/01/58	Germany			x
AS	AP	1.015.857	10/27/52	France			✓
AS	AQ	515359	12/18/30	Germany			✓
AS	AR	89352	12/31/1895	Germany			✓

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AS		Freudenstein, "Kinematic Structure of Mechanisms for Fixed and Variable-Stroke Axial-Piston Reciprocating Machines", Journal of Mechanisms, Transmissions, and Automation in Design, Vol. 106, pp. 355-363, 1984.
AT		Freudenstein, "Development of an Optimum Variable-Stroke Internal-Combustion Engine Mechanism From the Viewpoint...", Journal of Mechanisms, Transmissions, and Automation in Design, Vol. 105, pp. 259-266, 1984.
AU		

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APPLICANT

Robert A. Sanderson et al.

(37 CFR 1.98(b))

FILING DATE

1/22/02

GROUP

3740

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EC	BA	3	1	7	6	6	6	7	4/6/65	Hammer	123	43	—
EC	BB	2	9	4	0	3	2	5	6/14/60	Nakesch	74	60	—
EC	BC	2	9	1	0	9	7	3	11/3/59	Witzky	123	48	—
EC	BD	2	2	6	3	5	6	1	11/25/41	Biermann	74	60	—
EC	BE	2	2	5	6	0	7	9	9/16/41	Dinzi	103	162	—
EC	BF	2	0	4	8	2	7	2	7/21/36	Linthicum	103	173	—
EC	BG	2	0	4	2	7	3	0	6/2/36	Redrup	123	190	—
EC	BH	1	9	6	8	4	7	0	7/31/34	Szombathy	123	58	—
EC	BI	1	6	4	8	0	0	0	11/8/27	Lee			—
EC	BJ	1	5	7	7	0	1	0	3/16/26	Whatley			—
EC	BK	1	2	5	5	9	7	3	2/12/18	Almen			—
EC	BL	1	2	1	0	6	4	9	1/2/17	Holley et al.			—
EC	BM	1	0	1	9	5	2	1	3/5/12	Pratt			—
EC	BN		8	2	1	5	4	6	5/22/06	Smallbone			5/22/06
EC	BO		8	1	2	6	3	6	2/13/06	Callan			—
EC	BP												—

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EC	BQ	GB 2 030 254	10/3/78	UK				—
EC	BR	55-37541	9/9/78	Japan				—
EC	BS	1,416,219	9/20/65	France				—
EC	BT	1 451 926	5/7/65	German				—
EC	BU	461,343	12/26/13	France				—

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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10051460

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(37 CFR 1.98(b))

APPLICANT

Robert A. Sanderson et al.

FILING DATE

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3746

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<u>ES</u>	CA	2	5	3	2	2	5	4	11/28/50	Bouchard	74	60	<u> </u>
<u>ES</u>	CB	2	5	1	3	0	8	3	06/27/50	Eckert	74	60	<u> </u>
<u>ES</u>	CC	2	4	6	5	5	1	0	10/23/44	Bonnafe	103	162	<u> </u>
<u>ES</u>	CD	1	7	7	2	9	7	7	08/30	Arrighi	123	56.1	<u> </u>
<u>ES</u>	CE	1	6	7	3	2	8	0	06/12/28	Evans			<u> </u>
<u>ES</u>	CF	1	6	5	9	3	7	4	05/05/23	Robson			<u> </u>
<u>ES</u>	CG		7	4	8	5	5	9	12/29/03	Peet			
	CH												
	CI												
	CJ												
	CK												
	CL												

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CN							
	CN							
	CO							
	CP							
	CQ							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	CR		
	CS		

EXAMINER

[Signature]

DATE CONSIDERED

3/4/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
09850-013001

Application No.

1035140

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Sanderson et al.

Filing Date

1/22/02

Group Art Unit

3746

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
CS	AL	WO 99/14471	25.03.99	PCT			<input checked="" type="checkbox"/>	
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
CS	AQ	Den Hartog, J.P. (Jacob Pieter), "Problem 144" 1956 New York
	AR	
	AS	
	AT	

Examiner Signature

Date Considered

3/4/02

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
09850- 013001

Application No.

10051460

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Sanderson et al.

Filing Date

1/22/52

Group Art Unit

3746

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
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	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
ES	AL	121,961	01/08/20	United Kingdom				
ES	AM	345,813	07/25/17	Germany				✓
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
ES	AQ	PCT/US99/21125 International Search Report
	AR	
	AS	
	AT	

Examiner Signature

Date Considered

3/1/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
09850-013001

Application No.

1005140

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant
Sanderson et al.

Filing Date

1/24/03

Group Art Unit

3746

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
ES	AA	5,890,462	04/06/99	Bassett	123	56.2	—
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
ES	AL	1 595 600	08/12/81	UK				
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature

Date Considered

3/4/03

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)

DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

09850-013001

SERIAL NO.

100251466

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Robert A. Sanderson et al.

FILING DATE

1/22/02

GROUP

3746

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ES	AA	3 6 5 4 9 0 6	04/11/72	Airas	123	43	—
ES	AB	4 1 0 0 8 1 5	07/18/78	Kemper	—	—	—
ES	AC	5 0 0 2 4 6 6	03/26/91	Inagaki et al.	417	222	—
ES	AD	5 2 0 1 2 6 1	04/13/93	Kayukawa et al.	92	71	—
ES	AE	5 4 3 7 2 5 1	08/01/95	Anglim et al.	123	56.3	—
ES	AF	5 5 9 6 9 2 0	01/28/97	Umemura et al.	92	71	—
ES	AG	5 6 3 0 3 5 1	05/20/97	Clucas	92	12.2	—
ES	AH	5 6 9 9 7 1 6	12/23/97	Ota et al.	417	269	—
ES	AI	5 7 6 8 9 7 4	06/23/98	Ikeda et al.	92	71	—
ES	AJ	5 7 8 5 5 0 3	07/28/98	Ota et al.	47	269	—
ES	AK	5 8 3 9 3 4 7	11/24/98	Nomura et al.	92	12.2	—

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
						YES NO
AL						
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AO						
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AG		
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AS		

EXAMINER

[Signature]

DATE CONSIDERED

3/4/03

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 CFR 1.98.b))

ATTY. DOCKET NO.
09850-013001SERIAL NO.
0051460APPLICANT
Robert A. Sanderson et al.FILING DATE
1/22/02GROUP
3744

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
31	BA	5	8	9	4	7	8	2	04/20/99	Nissen et al.	02	12.2	—
32	BB	5	8	9	7	2	9	8	04/27/99	Umemura	02	22.2	—
	BC												
	BD												
	BE												
	BF												
	BG												
	BH												
	BI												
	BJ												
	BK												

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BL							
	BM							
	BN							
	BO							
	BP							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	BQ							
	BR							
	BS							

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-013001	Application No. 10251460
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Sanderson et al.	
		Filing Date 1/22/02	Group Art. Unit 3746
(37 CFR §1.98(b))			

U.S. Patent Documents

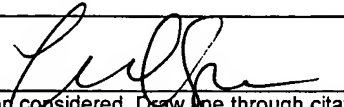
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
ES	AA	15,442	09/05/22	Almen			
ES	AB	3,969,046	07/13/76	Wynn	417	517	
ES	AC	3,974,714	08/17/76	Fritsch	74	571	
ES	AD	4,060,178	11/29/77	Miller	417	14	
ES	AE	4,231,724	11/04/80	Hope et al.	417	472	
ES	AF	4,236,881	12/02/80	Pfleger	417	502	
ES	AG	4,323,333	04/06/82	Apter et al.	417	63	
ES	AH	4,349,130	09/14/82	Bair	222	124.2	
ES	AI	4,545,507	10/08/85	Barall	222	137	
ES	AJ	4,715,791	12/29/87	Berlin et al.	417	274	
ES	AK	4,811,624	03/14/89	Fritsch	74	571	
ES	AL	4,941,809	07/17/90	Pinkerton	417	500	
ES	AM	5,044,889	09/03/91	Pinkerton	417	53	
ES	AN	5,088,902	02/18/92	Marioni	417	115	
ES	AO	5,154,589	10/13/92	Ruhl et al.	417	446	
ES	AP	5,405,252	04/11/95	Nikkamen	417	478	
ES	AQ	6,012,903	01/11/00	Boelkins	417	63	
ES	AR	6,065,433	05/23/00	Hill	123	73	

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AS							
	AT							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
ES	AU	Metering Pumps, LEWA modular®, American Lewa, The Technology Advantage
ES	AV	Advanced diaphragm metering pump technology for lower pressure applications, LEWAecodos®
	AW	

Examiner Signature 	Date Considered 3/4/03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PATENT & TRADEMARK OFFICE

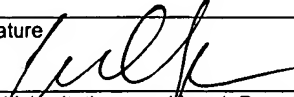
Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-013001	Application No. 10/051,460
	Applicant Sanderson et al.		
	Filing Date January 22, 2002	Group Art Unit 3746	

COPY OF PAPERS
ORIGINALLY FILED

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
BS	AA	4,491,057	01/01/85	Ziegler	91	523	Aug/3/82
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
BS	AL	60-164677	08/27/85	Japan (with full English Translation)			X	
BS	AM	WO 91/02889	03/07/91	PCT				
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature 	Date Considered 3/4/03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

MAY 22 2002
PATENT & TRADEMARK OFFICE

Sheet 1 of 1

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-013001	Application No. 10/051,460
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sanderson et al.	
		Filing Date January 22, 2002	Group Art Unit 3745 3746

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	AK						

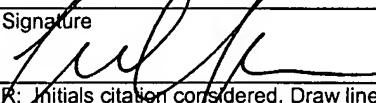
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
(ZS)	AL	EP 0052387 ✓	10/19/1981	European			X	
(Z)	AM	1,450,354 ✓	07/18/1966	France			X	
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

RECEIVED

MAY 29 2002

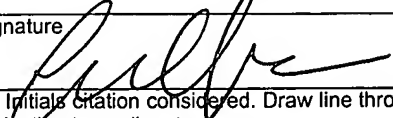
TECHNOLOGY CENTER R3700

Examiner Signature 	Date Considered 3/9/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 09850-013001		Application No. 10/051,460	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))				Applicant Sanderson et al.		Group Art Unit 3746	
				Filing Date January 22, 2002			
U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
(ZS)	AA	4,174,684	11/20/1979	Roseby et al.	123	48	
(ZS)	AB	4,729,717	03/08/1988	Gupta	47	5	
(ZS)	AC	5,102,306	04/07/1992	Liu	417	415	
(ZS)	AD	6,074,174	06/13/2000	Lynn et al.	412	415	
	AE						
	AF						
	AG						
	AH						
	AI						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ							
	AK							
	AL							
	AM							
	AN							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AO	
	AP	
	AQ	
	AR	

Examiner Signature 	Date Considered 3/4/03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	